```
CTCAGCTGTGAGCATGCGGCACTGACCAGCTTGCCAGCTTGCTATAATCAAGTGAAGGTTCAGATGGATCAGTTTATGCAGCAGCTCCAG 1890
L S C E H A A L T S C P A C Y N Q V K V Q M D Q F M Q Q L Q 630
                →Dom. I/II
ATCCTGGAGGCCCTGATTTCGAAGGCTCAGGGTGGAGCAGTACCCAACGCAGAGCTGGAAGGCAGGATGCAGCAGGCCCCTT 1980
ILEALISKA QGGAVPNAELEGRM QQAEQAL 660
CGGGACATTCTGAGAGAAGCCCAGATTTCACAAGATGCTGTTAGATCCTTCAATCTCCGGGTGGCCAAGGCAAGGACTCAAGAGAATAGC 2070
R D I L R E A Q I S Q D A V R S F N L R V A K A R T Q E N S
Y R D R L D D L K M T V E R V R A L G S Q Y Q N Q V Q D T R
AGGCTCATCACTCAGATGCGCCTGAGCCTGGAGGAAAGTGAGGCTTCCCTGCAAAACACCAACATTCCTCCTTCAGAGCACTACGTGGGG 2250
R L I T Q M R L S L E E S E A S L Q N T N I P P S E H Y V G 750
P N G F K S L A Q E A T R L A D S H V Q S A S N M E Q L A K
E T O E Y S K E L M S L V R E A L O E G G S G S L D G A V
V Q R L V G K L Q K T K S L A Q E L S R E A T Q T D M E A D 840
AGGTCTTATCAGCATAGTCTCCACCTTCTCAATTCCGTGTCTCAGATTCAGGGAGTCAATGATCAGTCCTTGCAGGTAGAAGCGAAGAGG 2610
R S Y Q H S L H L L N S V S Q I Q G V N D Q S L Q V E A K R
CTCAGACAAAAAGCTGATTCTCTCTCAAACCGTGTGACTAAGCATATGGATGAGTTCAAGCACGTGCAAAGCAATCTGGGAAACTGGGAA
L R Q K A D S L S N R V T K H M D E F K H V Q S N L G N W E 900
GAAGAAACCCGGCAGCTCTTACAGAATGGAAAGAATGGGAGACAGCAGCATCAGATCAGCTGCTTTCCCGTGCCAACCTTGCTAAAAGCAGA 2790
E E T R Q L L Q N G K N G R Q T S D Q L L S R A N L A K S R 930
GCCCAAGAAGCACTAAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAACATCTTAAAGAATCTCAGAGAGTTTGACCTGCAGGTTGGA 2880
A Q E A L S M G N A T F Y E V E N I L K N L R E F D L Q V G
D K R A E A E E A M K R L S Y I S Q K V A G A S D K T K Q A 990
{\tt GAAGCAGCCCTGGGCAGTGCTGCCGACGCCCAGAGGGCAAAGAATGCAGCCAGGAGGCCCTGGAGATCTCTGGCAAGATAGAACAG} \ \ 3\,0\,6\,0
EAALGSAAADAQRAKNAAREALEISGKIEQ 1020
GAGATAGGAGGTCTGAACTTGGAAGCCAATGTGACAGCAGATGGAGCCTTGGCCATGGAGAAGGGACTGGCCACTCTGAAAAGTGAGATG 3150
EIGGLNLEA<u>N V T</u>ADGALAMEKGLATLKSEM 1050
AGAGAAGTGGAAGGAGGCTGTCAAGGAAGGAGCAGGAGTTTGACATGGATATGGACGCAGTGCAGATGGTAATTGCAGAGGCCCCAAAGA 3240
R E V E G E L S R K E Q E F D M D M D A V Q M V I A E A Q R
GTTGAAAACAGAGCCAAGAATGCTGGAGTTACGATCCAAGACACTCAACACTTGGATGGCATCCTACACCTAATAGACCAGCCTGGC 3330
VENRAKNAG VTIQDTLNTLDGILHLIDQPG 1110
S V D E E R L I L E Q K L F R A K T Q I N S Q L R P L M S 1140
GAGCTGGAAGAGGGCACATCGGCAGAAGGGCCACCTCCGTTTCCTGGAGACTAGCATAGATGGGATTCTGGCTGATGTGAAGAACCTG 3510
E L E E R A H R Q K G H L R F L E T S I D G I L A D V K N L 1170
GAGAACATCAGGGACAACCTGCCCCCGGGCTGCTACAATACCCAGGCTCTTGAGCAACAGtgaagctgccttagagatttctcaaccaag 3600
ENIRDNLPPGCYNTQALEQQ*
gttcttgggattcagacctagctgccttagagatttctcaaccaaggttcttgggattcagacctcagggctcaggagcccgcatgcggg 3690
tggggtgggatgggaatatttgaatatgttgaatgcgtgtgctcaggccccagtgaacctgatcccatccctgagacctcggccagataa 3780
atgtctttattg
                                                           3789-31
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horse man mouse		MPALWLSCYLCFSLLLPAARATSGREVCDCNGKSRQCIFDQELHKQTGNGFRCLNCNDNTDGIHCERCKAGFYRQRERDRCLPCNCNSKGSLSARCDNSG MPALWLGCCLCFSLLLPAARATSRREVCDCNGKSRQCIFDRELHRQTGNGFRCLNCNDNTDGIHCEKCKNGFYRHRERDRCLPCNCNSKGSLSARCDNSG MPALWLSCCLGVALLLPASQATSRREVCDCNGKSRQCVFDQELHRQAGSGFRCLNCNDNTAGVHCERSREGFYQHQSKSRCLPCNCHSKGSLSAGCDNSG
horse man mouse	<u> </u>	RCSCKPGVTGDRCDRCLPGFHTLTDAGCAQDQRLLDSKCDCDPAGISGPCDSGRCVCKPAVTGERCDRCRPGYYHLDGGNPQGCTQCFCYGHSASCHSSG RCSCKPGVTGARCDRCLPGFHMLTDAGCTQDQRLLDSKCDCDPAGIAGPCDAGRCVCKPAVTGERCDRCRSGYYNLDGGNPEGCTQCFCYGHSASCRSSA QCRCKPGVTGQRCDQCQPGFHMLTDAGCTRDQGQLDSKCDCDPAGISGPCDSGRCVCKPAVTGERCDRCRPRDYHLDRANPEGCTQCFCYGHSASCHASA
horse	201	DYSVHKIISAFHQDVDGWKAVQRNGSPAKLQWSQRHRDIFSSARRSDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRHPSAHDVILEGAGLRITAPL
man	201	EYSVHKITSTFHQDVDGWKAVQRNGSPAKLQWSQRHQDVFSSAQRLDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRHPSAHDVILEGAGLRITAPL
mouse	201	DFSVHKITSTFSQDVDGWKAVQRNGAPAKLHWSQRHRDVFSSARRSDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRQPSAYDVILEGAGLQIRAPL
horse	301	MPLSKTLPCGITKTYTFRLNEHPSSNWSPQLSYFEYRRLLRNLTALR-IRATYGEYSTGYIDNVTLISARPVSGAPAPWVEQCVCPVGYKGQFCQDCASG
man	301	MPLGKTLPCGLTKTYTFRLNEHPSNNWSPQLSYFEYRRLLRNLTALR-IRATYGEYSTGYIDNVTLISARPVSGAPAPWVEQCICPVGYKGQFCQDCASG
mouse	301	MAPGKTLPCGITKTYTFRLNEHPSSHWSPQLSYFEYRRLLRNLTALLMIRATYGEYSTGYIDNVTLVSARPVLGAPAPWVERCVCLLGYKGQFCQECASG
horse	400	YKRDSARLGPFGTCIPCNCQGGGACDPDTGDCYSGDENPDIPECADCPIGFYNDPQDPRSCKPCPCRNGFSCSVMPETEEVVCNNCPQGVTGARCELCAD
man	400	YKRDSARLGPFGTCIPCNCQGGGACDPDTGDCYSGDENPDI-ECADCPIGFYNDPHDPRSCKPCPCHNGFSCSVMPETEEVVCNNCPPGVTGARCELCAD
mouse	401	YKRDSARLGAFGACVPCNCQGEGACDPDTGDCYSGDENPDI-ECADCPIGFYNDPHDPRSCKPCPCHNGFSCSVMPETEEVVCNNCPPGVTGARCELCAD
horse	500	GYFGDPFGERGPVRPCQPCQCNNNVDPSASGNCDRLTGRCLKCIHNTAGVHCDQCKAGYYGDPLAPNPADKCRACNCNPVGSEPVECRSDGSCVCKPGFG
man	499	GYFGDPFGEHGPVRPCQPCQCNNNVDPSASGNCDRLTGRCLKCIHNTAGIYCDQCKAGYFGDPLAPNPADKCRACNCNPMGSEPVGCRSDGTCVCKPGFG
mouse	500	GFFGDPFGEHGPVRPCQRCQCNNNVDPNASGNCDQLTGRCLKCIYNTAGVYCDQCKAGYFGDPLAPNPADKCRACNCSPMGAEPGECRGDGSCVCKPGFG
horse man mouse	600 600	GLSCEHAALTSCPACYNQVKVQMDQFMQQLQILEALISKAQGGAVPNAELEGRMQQAEQALRDILREAQISQDAVRSFNLRVAKARTQENSYRDRLD GPNCEHGAFS-CPACYNQVKIQMDQFMQQLQRMEALISKAQGGDG-VVPDTELEGRMQQAEQALQDILRDAQISEGASRSLGLQLAKVRSQENSYQSRLD AFNCDHAALTSCPACYNQVKIQMDQFTQQLQSLEALVSKAQGGGGGTVPVQLEGRIEQAEQALQDILGEAQISEGAMRAVAVRLAKARSQENDYKTRLD
horse	697	DLKMTVERVRALGSQYQNQVQDTRRLITQMRLSLEESEASLQNTNIPPSEHYVGPNGFKSLAQEATRLADSHVQSASNMEQLAKETQEYSKELMSLVREA
man	697	DLKMTVERVRALGSQYQNRVRDTHRLITQMQLSLAESEASLGNTNIPASDHYVGPNGFKSLAQEATRLAESHVESASNMEQLTRETEDYSKQALSLVRKA
mouse	700	DLKMTAERIRALGSQHQNRVQDTSRLISQMRLSLAGSEALLENTNIHSSEHYVGPNDFKSLAQEATRKADSHAESANAMKQLARETEDYSKQALSLARKL
horse	797	LQE—GGGSGSLDGAVVQRLVGKLQKTKSLAQELSREATQTDMEADRSYQHSLHLLNSVSQIQGVNDQSLQVEAKR-LRQKADSLSNRVTKHMDEFKHVQ
man	797	LHEGVGSGSGSPDGAVVQGLVEKLEKTKSLAQQLTREATQAEIEADRSYQHSLRLLDSVSRLQGVSDQSFQVEEAKRIKQKADSLSTLVTRHMDEFKRTQ
mouse	800	LSG—GGGSGSWDSSVVQGLMGKLEKTKSLSQQLSLEGTQADIEADRSYQHSLRLLDSASQLQGVSDLSFQVEAKR-IRQKADSLSNLVTRQTDAFTRVR
horse	894	SNLGNWEEETRQLLQNGKNGRQTSDQLLSRANLAKSRAQEALSMGNATFYEVENILKNLREFDLQVGDKRAEAEEAMKRLSYISQKVAGASDKTKQAEAA
man	897	KNLGNWKEEAQQLLQNGKSGREKSDQLLSRANLAKSRAQEALSMGNATFYEVESILKNLREFDLQVDNRKAEAEEAMKRLSYISQKVSDASDKTQQAERA
mouse	897	NNLGNWEKETRQLLQTGKDRRQTSDQLLSRANLAKNRAQEALSMGNATFYEVENILKNLREFDLQVEDRKAEAEEEAMKRLSSISQKVADASDKTQQAETA
horse	994	LGSAAADAQRAKNAAREALEISGKIEQEIGGLNLEANVTADGALAMEKGLATLKSEMREVEGELSRKEQEFDMDMDAVQMVIAEAQRVENRAKNAGVTIQ
man	997	LGSAAADAQRAKNGAGEALEISSEIEQEIGSLNLEANVTADGALAMEKGLASLKSEMREVEGELERKELEFDTNMDAVQMVITEAQKVDTRAKNAGVTIQ
mouse	997	LGSATADTQRAKNAAREALEISSEIELEIGSLNLEANVTADGALAMEKGTATLKSEMREMI-ELARKELEFDTDKDTVQLVITEAQQADARATSAGVTIQ
horse	1094	DTLNTLDGILHLIDQPGSVDEERLILLEQKLFRAKTQINSQLRPLMSELEERAHRQKGHLRFLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ
man	1097	DTLNTLDGLLHLMDQPLSVDEEGLVLLEQKLSRAKTQINSQLRPMMSELEERARQQRGHLHLLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ
mouse	1096	DTLNTLDGILHLIDQPGSVDEEGMMLLEQGLFQAKTQINSRLRPLMSDLEERVRRQRNHLHLLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ

5 'TGGGTCCTCCTTATTCACAGG TGAGTCACACCCTGAAACACGGCTCTCTTCCTGTCAGGACTGAGTCAGGTCAGAAGAGTCGATAAAACCACCTGATCAAGGAAAAG -91 GAAGGCACAGCGGAGCGCAGAGTGAGAACTCCCAGCGGCGAGGCGCCGGGCGAGCCCCTGCAGCGGGGGGGACCGCGCCGGCCTGGCC -1 ATGCCTGCGCTCTGGCTGAGCTGCTACCTCTGCTCCTCCTCCTCCCGCAGCCCGGGCCACCTCCGGGAGGAAGTCTGTGATTGC 90 MPALWLSCYLCFSLLLPAAARATSGREYCDC 30 NGKSRQCIFDQELHKQTGNGFRCLNCNDNT 60 GATGGCATCCACTGCGAGAGGTGCAAGGCAGGATTTTACCGACAGAGAGAAAGGGACCGCTGTTTACCCTGCAATTGTAACTCTAAAGGT 270 D G I H C E R C K A G F Y R Q R E R D R C L P C N C N S K G TCTCTTAGCGCTCGATGTGACAACTCTGGACGGTGCAGCTGTAAGCCAGGTGTGACAGGAGACAGGTGTGACCGATGTCTGCCCGGCTTC 360 S L S A R C D N S G R C S C K P G V T G D R C D R C L P G F 120 CACACACTCACTGATGCTGGGTGCGCCCAAGACCAAAGGCTGCTAGACTCCAAGTGTGACTGTGACCCAGCTGGCATCTCAGGGCCCTGT 450 H T L T D A G C A Q D Q R L L D S K C D C D P A G I S G P C 150 GACTCAGGCCGCTGTGTCTGCAAGCCGGCTGTCACTGGAGAGCGCTGTGATAGGTGTCGACCAGGTTACTATCACCTGGATGGGGGAAAC 540 D S G R C V C K P A V T G E R C D R C R P G Y Y H L D G G N CCTCAGGGCTGTACCCAGTGTTTTTGCTATGGGCATTCCGCCAGCTGCCACAGCTCTGGGGACTACAGTGTCCATAAAATCATCTCTGCC 630 PQGCTQCFCYGHSA|SCHSSGDYSVHKIISA 210 → dom. IV TTCCATCAAGATGTTGATGGCTGGAAGGCTGTCCAAAGAAACGGGTCTCCTGCAAAGCTCCAGTGGTCACAGCGCCATCGGGATATATTT 720 FHQDVDGWKAVQR<mark>NGS</mark>PAKLQWSQRHRDIF 240 AGCTCAGCACGACGATCAGACCCTGTCTATTTTGTAGCTCCTGCCAAATTTCTTGGGAATCAACAGGTGAGCTACGGGCAAAGCCTATCT 810 S S A R R S D P V Y F V A P A K F L G N Q Q V S Y G Q S L S 270 TTTGACTACCGTGTGGATAGGGGAGGCAGACACCCATCTGCCCATGACGTGATCCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTG 900 F D Y R V D R G G R H P S A H D V I L E G A G L R I T A P L ATGCCACTTAGCAAGACACTGCCTTGTGGGATCACCAAGACTTACACATTCAGATTAAATGAACATCCAAGCAGTAATTGGAGCCCCCAG 990 MPLSKTLPCGITKTYTFRLNEHPSS<mark>NWS</mark>PQ 330 LSYFEYRRLLR<u>NLT</u>ALRIRATYGEYSTGYI 360 GACAACGTGACCTTGATTTCAGCCCGCCCCGTTTCTGGAGCCCCAGCGCCCTGGGTTGAACAATGTGTATGCCCTGTTGGCTACAAGGGG 1170 D N V T L I S A R P V S G A P A P W V E Q C V C P V G Y K G 390 Dom. III CAGTTCTGCCAGGATTGTGCTTCCGGCTACAAAAGAGATTCAGCCAGACTGGGACCTTTTGGCACCTGTATTCCATGTAACTGCCAAGGG 1260 Q F C Q D C A S G Y K R D S A R L G P F G T C I P C N C Q G 420 GGAGGGCCTGCGATCCAGACACAGGAGACTGTTACTCAGGGGATGAGAACCCTGACATCCCTGAGTGTGCTGACTGCCCCATTGGTTTC 1350 G G A C D P D T G D C Y S G D E N P D I P E C A D C P I G F 450 TACAACGATCCACAAGACCCCCGCAGCTGCAAGCCGTGCCCCTGTCGCAATGGGTTCAGCTGCTGCTGATGCCTGAGACAGAGGAGGAGGTG 1440 Y N D P Q D P R S C K P C P C R N G F S C S V M P E T E E V 480 GTGTGCAATAACTGCCCCCAGGGTGTCACTGGTGCCCGCTGTGAGCTCTGTGCTGATGGCTATTTTGGGGACCCCTTCGGGGAACGTGGC 1530 V C N N C P O G V T G A R C E L C A D G Y F G D P F G E R G 510 PVRPCQPCQCNNNVDPSASGNCDRLTGRCL 540 AAGTGCATCCACAACACGCTGGGGTCCACTGTGACCAGTGCAAAGCAGGCTACTATGGGGACCCGTTGGCTCCCAATCCAGCAGACAAG 1710 KCIHNTAGVHCDQCKAGYYGDPLAPNPADK 570 TGTCGAGCTTGCAACCCAGTGGGCTCGGAGCCTGTGGAGTGTCGAAGTGATGGCAGCTGTTTGCAAGCCAGGCTTTGGTGGC 1800 C R A C N C N P V G S E P V E C R S D G S C V C K P G F G G 600

CTCAGCTGTGAGCATGCGGCACTGACCAGCTTCCCAGCTTGCTATAATCAAGTGAAGGTTCAGATGGATCAGTTTATGCAGCAGCTCCAG 1890 L S C E H A A L T S C P A C Y N Q V K V Q M D Q F M Q Q L Q 630 Dom. I/II ATCCTGGAGGCCCTGATTTCGAAGGCTCAGGGTGGAGCAGTACCCAACGCAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTT 1980 ILEALISKAQGGAVPNAELEGRMQQAEQAL 660 CGGGACATTCTGAGAGAAGCCCAGATTTCACAAGATGCTGTTAGATCCTTCAATCTCCGGGTGGCCAAGGACAAGGACTCAAGAGAATAGC 2070 R D I L R E A Q I S Q D A V R S F N L R V A K A R T Q E N S Y R D R L D D L K M T V E R V R A L G S Q Y Q N Q V Q D T R AGGCTCATCACTCAGATGCGCCTGAGCCTGGAGGAAAGTGAGGCTTCCCTGCAAAACACCAACATTCCTCCTTCAGAGCACTACGTGGGG 2250 RLITQMRLSLEESEASLQNTNIPPSEHYVG 750 P N G F K S L A Q E A T R L A D S H V Q S A S N M E Q L A K E T Q E Y S K E L M S L V R E A L Q E G G G S G S L D G A V V Q R L V G K L Q K T K S L A Q E L S R E A T Q T D M E A D 840 AGGTCTTATCAGCATAGTCTCCACCTTCTCAATTCCGTGTCTCAGATTCAGGGAGTCAATGATCAGTCCTTGCAGGTAGAAGCGAAGAGG 2610 R S Y O H S L H L L N S V S O I O G V N D Q S L Q V E A K R CTCAGACAAAAAGCTGATTCTCTCAAACCGTGTGACTAAGCATATGGATGAGTTCAAGCACGTGCAAAGCAATCTGGGAAACTGGGAA 2700 L R O K A D S L S N R V T K H M D E F K H V Q S N L G N W E EETRQLLQNGKNGRQTSDQLLSRANLAKSR 930 GCCCAAGAAGCACTAAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAACATCTTAAAGAATCTCAGAGAGTTTGACCTGCAGGTTGGA 2880 A Q E A L S M G N A T F Y E V E N I L K N L R E F D L Q V G D K R A E A E E A M K R L S Y I S Q K V A G A S D K T K Q A GAAGCAGCCTGGGCAGTGCTGCCGACGCCCAGAGGGCAAAGAATGCAGCCAGGGAGGCCCTGGAGATCTCTGGCAAGATAGAACAG 3060 E A A L G S A A A D A Q R A K N A A R E A L E I S G K I E Q GAGATAGGAGGTCTGAACTTGGAAGCCAATGTGACAGCAGATGGAGCCTTGGCCATGGAGAAGGGACTGGCCACTCTGAAAAGTGAGATG 3150 EIGGLNLEA<u>N V T</u>ADGALAM EKGLAT LKSEM 1050 AGAGAAGTGGAAGGAGGCTGTCAAGGAAGGAGCAGGAGTTTGACATGGATATGGACGCAGTGCAGATGGTAATTGCAGAGGCCCAAAGA 3240 R E V E G E L S R K E Q E F D M D M D A V Q M V I A E A Q R GTTGAAAACAGAGCCAAGAATGCTGGAGTTACGATCCAAGACACTCAACACTTGGATGGCATCCTACACCTAATAGACCAGCCTGGC 3330 VENRAKNAGVTIQDTLNTLDGILHLIDQPG 1110 S V D E E R L I L L E Q K L F R A K T Q I N S Q L R P L M S 1140 GAGCTGGAAGAGGGCCACATCGGCAGAAGGGCCACCTCCGTTTCCTGGAGACTAGCATAGATGGGATTCTGGCTGATGTGAAGAACCTG 3510 E L E E R A H R Q K G H L R F L E T S I D G I L A D V K N L  ${\tt GAGAACATCAGGGACAACCTGCCCCCGGGCTGCTACAATACCCAGGCTCTTGAGCAACAGtgaagctgccttagagatttctcaaccaag} \ \ 3600$ ENIRDNLPPGCYNTQALEQQ\* gttcttgggattcagacctagctgccttagagatttctcaaccaaggttcttgggattcagacctcagggctcaggagcccgcatgcggg 3690 tggggtgggatgggaatatttgaatatgttgaatgcgtgtgctcaggcccagtgaacctgatcccatccctgagacctcggccagataa 3780 atgtctttattg 3789-31

MPALWLSCYLCFSLLLPAARATSGREVCDCNGKSRQCIFDQELHKQTGNGFRCLNCNDNTDGIHCERCKAGFYRQRERDRCLPCNCNSKGSLSARCDNSG MPALWLGCCLCFSLLLPAARATSRREVCDCNGKSRQCIFDRELHRQTGNGFRCLNCNDNTDGIHCEKCKNGFYRHRERDRCLPCNCNSKGSLSARCDNSG MPALWLSCCLGVALLLPASQATSRREVCDCNGKSRQCVFDQELHRQAGSGFRCLNCNDNTAGVHCERSREGFYQHQSKSRCLPCNCHSKGSLSAGCDNSG	RCSCKPGVTGDRCDRCLPGFHTLTDAGCAQDQRLLDSKCDCDPAGISGPCDSGRCVCKPAVTGERCDRCRPGYYHLDGGNPQGCTQCFCYGHSASCHSSG RCSCKPGVTGARCDRCLPGFHMLTDAGCTQDRLLDSKCDCDPAGISGPCDAGRCVCKPAVTGERCDRCRSGYYNLDGGNPEGCTQCFCYGHSASCRSSA QCRCKPGVTGQRCDQCQPGFHMLTDAGCTRDQGQLDSKCDCDPAGISGPCDSGRCVCKPAVTGERCDRCRPRDYHLDRANPEGCTQCFCYGHSASCHASA	DYSVHKIISAFHQDVDGWKAVQRNGSPAKLQWSQRHRDIFSSARRSDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRHPSAHDVILEGAGLRITAPL EYSVHKITSTFHQDVDGWKAVQRNGSPAKLQWSQRHQDVFSSAQRLDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRHPSAHDVILEGAGLRITAPL DFSVHKITSTFSQDVDGWKAVQRNGAPAKLHWSQRHRDVFSSARRSDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRQPSAYDVILEGAGLQIRAPL	MPLSKTLPCGITKTYTFRLNEHPSSNWSPQLSYFEYRRLLRNLTALR-IRATYGEYSTGYIDNVTLISARPVSGAPAPWVEQCVCPVGYKGQFCQDCASG MPLGKTLPCGLTKTYTFRLNEHPSNNWSPQLSYFEYRRLLRNLTALR-IRATYGEYSTGYIDNVTLISARPVSGAPAPWVEQCICPVGYKGQFCQDCASG MAPGKTLPCGITKTYTFRLNEHPSSHWSPQLSYFEYRRLLRNLTALLMIRATYGEYSTGYIDNVTLVSARPVLGAPAPWVERCVCLLGYKGQFCQECASG	YKRDSARLGPFGTCIPCNCQGGGACDPDTGDCYSGDENPDIPECADCPIGFYNDPQDPRSCKPCPCRNGFSCSVMPETEEVVCNNCPQGVTGARCELCAD YKRDSARLGPFGTCIPCNCQGGGACDPDTGDCYSGDENPDI-ECADCPIGFYNDPHDPRSCKPCPCHNGFSCSVMPETEEVVCNNCPPGVTGARCELCAD YKRDSARLGAFGACVPCNCQGEGACDPDTGDCYSGDENPDI-ECADCPIGFYNDPHDPRSCKPCPCHNGFSCSVMPETEEVVCNNCPPGVTGARCELCAD	GYFGDPFGERGPVRPCQPCQCNNNVDPSASGNCDRLTGRCLKCIHNTAGVHCDQCKAGYYGDPLAPNPADKCRACNCNPVGSEPVECRSDGSCVCKPGFG GYFGDPFGEHGPVRPCQPCQCNNNVDPSASGNCDRLTGRCLKCIHNTAGIYCDQCKAGYFGDPLAPNPADKCRACNCNPMGSEPVGCRSDGTCVCKPGFG GFFGDPFGEHGPVRPCQRCQCNNNVDPNASGNCDQLTGRCLKCIYNTAGVYCDQCKAGYFGDPLAPNPADKCRACNCSPMGAEPGECRGDGSCVCKPGFG	GLSCEHAALTSCPACYNQVKVQMDQFMQQLQILEALISKAQGGAVPNAELEGRMQQAEQALRDILREAQISQDAVRSFNLRVAKARTQENSYRDRLD GPNCEHGAFS-CPACYNQVKIQMDQFMQQLQRMEALISKAQGGDG-VVPDTELEGRMQQAEQALQDILRDAQISEGASRSLGLQLAKVRSQENSYQSRLD AFNCDHAALTSCPACYNQVKIQMDQFTQQLQSLEALVSKAQGGGGGGTVPVQLEGRIEQAEQALQDILGEAQISEGAMRAVAVRLAKARSQENDYKTRLD	DLKMTVERVRALGSQYQNQVQDTRRLITQMRLSLEESEASLQNTNIPPSEHYVGPNGFKSLAQEATRLADSHVQSASNMEQLAKETQEYSKELMSLVREA DLKMTVERVRALGSQYQNRVRDTHRLITQMQLSLAESEASLGNTNIPASDHYVGPNGFKSLAQEATRLAESHVESASNMEQLTRETEDYSKQALSLVRKA DLKMTAERIRALGSQHQNRVQDTSRLISQMRLSLAGSEALLENTNIHSSEHYVGPNDFKSLAQEATRKADSHAESANAMKQLARETEDYSKQALSLARKL	LQE—GGGSGSLDGAVVQRLVGKLQKTKSLAQELSREATQTDMEADRSYQHSLHLLNSVSQIQGVNDQSLQVEAKR-LRQKADSLSNRVTKHMDEFKHVQ LHEGVGSGSGSPDGAVVQGLVEKLEKTKSLAQQLTREATQAEIEADRSYQHSLRLLDSVSRLQGVSDQSFQVEEAKRIKQKADSLSTLVTRHMDEFKRTQ LSG—GGGSGSWDSSVVQGLMGKLEKTKSLSQQLSLEGTQADIEADRSYQHSLRLLDSASQLQGVSDLSFQVEAKR-IRQKADSLSNLVTRQTDAFTRVR	SNLGNWEEETRQLLQNGKNGRQTSDQLLSRANLAKSRAQEALSMGNATFYEVENILKNLREFDLQVGDKRAEAEEAMKRLSYISQKVAGASDKTKQAEAA KNLGNWKEEAQQLLQNGKSGREKSDQLLSRANLAKSRAQEALSMGNATFYEVESILKNLREFDLQVDNRKAEAEEAMKRLSYISQKVSDASDKTQQAERA NNLGNWEKETRQLLQTGKDRRQTSDQLLSRANLAKNRAQEALSMGNATFYEVENILKNLREFDLQVEDRKAEAEBEAMKRLSSISQKVADASDKTQQAETA	LGSAAADAQRAKNAAREALEISGKIEQEIGGLNLEANVTADGALAMEKGLATLKSEMREVEGELSRKEQEFDMDMDAVQMVIAEAQRVENRAKNAGVTIQ LGSAAADAQRAKNGAGEALEISSEIEQEIGSLNLEANVTADGALAMEKGLASLKSEMREVEGELERKELEFDTNMDAVQMVITEAQKVDTRAKNAGVTIQ LGSATADTQRAKNAAREALEISSEIELEIGSLNLEANVTADGALAMEKGTATLKSEMREMI-ELARKELEFDTDKDTVQLVITEAQQADARATSAGVTIQ	<ul> <li>DTLNTLDGILHLIDQPGSVDEERLILLEQKLFRAKTQINSQLRPLMSELEERAHRQKGHLRFLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ</li> <li>DTLNTLDGLLHLMDQPLSVDEEGLVLLEQKLSRAKTQINSQLRPMMSELEERARQQRGHLHLLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ</li> <li>DTLNTLDGILHLIDQPGSVDEEGMMLLEQGLFQAKTQINSRLRPLMSDLEERVRRQRNHLHLLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ</li> </ul>
	101 101 RCS 101 QCR	201 DYS 201 EYS' 201 DFS'	301 MPL 301 MPL 301 MAF	400 YKR 400 YKR 401 YKR	500 GYF 499 GYF 500 GFF	600 GLS 599 GPN 600 AFN	697 DLK 697 DLK 700 DLK	797 LQE 797 LHE 800 LSG-	894 SNLV 897 KNL 897 NNL	994 LGS, 997 LGS, 997 LGS,	1094 DTL 1097 DTL 1096 DTL
0	horse I man I mouse I	horse 20 man 20 mouse 20	horse 30 man 30 mouse 30	horse 40 man 40 mouse 40	horse 56 man 49 mouse 56	horse 60 man 59 mouse 60	horse 69 man 69 mouse 70	horse 79 man 79 mouse 80	horse 89 man 89 mouse 89	horse 99 man 99 mouse 99	horse 10 man 10 mouse 10